



CCC VANGUARD

Vanguard S5P Upgrade Package (VUP)

Extend the life of your existing Series 5 Vanguard hardware.

The Next Level of Performance for Series 5 Vanguard Is Yours Now.

Since 2000, the Series 5 Vanguard control system has provided maximum availability and predictability. Now comes the next phase of development to the Vanguard platform: Prodigy on Vanguard (S5P). The S5P creates the full Prodigy experience on existing Series 5 Vanguard hardware.

The Vanguard Upgrade Package (VUP) allows users to migrate their existing systems to present-day technology,

enjoying both enhanced features and a longer life cycle. The VUP is a **major upgrade** for Vanguard Duplex systems, and includes:

- ✓ MPU-750/1002/1004 upgrade to new MPU-1004P processor card with the Prodigy operating system
- ✓ Cybersecurity protection (Achilles Communications Certification, Level 1)

- ✓ Fully supported Prodigy operating system
- ✓ High-speed critical archiving
- ✓ Sensor drift/freeze sensing
- ✓ Valve exerciser

Vanguard S5P improves control system **availability, maintainability** and **performance** with a **minimum risk** upgrade.

It's More Than a System Upgrade. It's a New Lease on Life for Your Current Hardware.

Low-Risk, Cost-Effective Upgrade

VUP installation time is reliable and includes the following services:

- ✓ Project upgrade to the Prodigy OS
- ✓ MPU and TMPU cards replacement
- ✓ Customer training

Improved System Reliability

Proper operation of sensors and valves is essential for your compressor system, but are you certain they are functioning properly? The Vanguard S5P can detect if a sensor is frozen or drifting by evaluating its performance relative to the rest of the system. Its new valve exerciser can ensure the valve will react when required.

Cybersecurity Built In

Your operation is only as safe as the weakest link in the system.

The Vanguard S5P runs the full Prodigy operating system using your existing Vanguard hardware.

The Prodigy operating system is secure by design, receiving Achilles Communications Level 1 Certification.



Better System Performance

The MPU-1004P card has a powerful processor, which minimizes the risk of CPU overload and increases application execution performance.

Only CCC guarantees a cost-effective migration for your legacy systems with local service - no matter where you are.

Featuring Extraordinary New Levels of Data and System Control



High-Speed Critical Archiving

Not all data is created equal. Even less critical data may require large amounts of storage. But the S5P upgrade helps you prioritize the most important data and store it faster, meaning you have access to the most valuable information when you need it while saving storage and bandwidth.



Cybersecurity Certification

S5P is certified to Level 1 of Achilles communication testing. You are assured robust links to your critical systems.



Sensor Drift/Freeze Detection Option

Compressor trips can frustrate operations like nothing else, but now you can receive bad data notifications before the worst happens. S5P warns you when a sensor malfunctions so you can take corrective action before workflow is interrupted.



Valve Exerciser Option

A good recycle valve is a closed recycle valve, but CCC's S5P algorithms give you peace of mind to know it will operate as expected when required.

The Trusted Name for Turbomachinery Optimization.



1 Billion
Operating
Hours



10,000+
Machines



40+
OEMs



150+
Turbomachinery
Experts



13 Worldwide
Offices



For inquiries please email: S5PVanguard@cccglobal.com



USA | CCC Global Headquarters
4745 121st Street
Des Moines, IA 50323-2316 USA
+1-515-270-0857
www.cccglobal.com
solutions@cccglobal.com